

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES REPLACEMENT OF A DAMAGED LOOP DETECTOR ALONG US 1 EASTBOUND AT THE INTERSECTION OF US 1 AND US 222 IN CECIL COUNTY. US 1 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FIVE-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR EASTBOUND OF US 1. US 1 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. US 222 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY.

CONTACTS

DISTRICT (DISTRICT 2)

MR. TERRY WRIGHT  
DISTRICT ENGINEER  
410-810-3210

MR. JEFF WENTZ  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
410-810-3240

MR. BARRY CLOTHIER  
DISTRICT UTILITY ENGINEER  
410-810-3275

MR. WM NORRIS EMBERT  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
410-810-3270

MR. MIKE LEWIS  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
410-810-3250

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS  
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MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
410-787-7670

MR. MICHAEL STOCKER  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7696

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9016	2	EA	4 CHANNEL DETECTOR AMPLIFIER
9046	1	EA	DETECTOR RACK RETROFIT

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM	QUANTITY	UNIT	DESCRIPTION
1002	1	EA	MAINTENANCE OF TRAFFIC
8007	1	EA	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
8010	10	LF	1 INCH DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT CONDUIT
8020	480	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8021	150	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8027	225	LF	ELECTRICAL CABLE - 2 CONDUCTOR NO. 14 AWG, ALUMINUM SHIELDED

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE [NEW SIGNAL / SIGNAL MODIFICATIONS].

PHASE CHART

1	2	3	4	5	6	7	8
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 1 AND 6	<G	G	R	R	R	R	R	R	↑
1 AND 6 CHANGE	<Y	G	R	R	R	R	R	R	→
PHASE 2 AND 6	G	G	G	G	R	R	R	R	↑
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	→
PHASE 4 AND 8	R	R	R	R	G	G	G	G	↑
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	→
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	↑

WIRING DIAGRAM

WIRING KEY

- A } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG, ALUMINUM SHIELDED)
- LW } PROPOSED LOOP WIRE
- EX } EXISTING SIGNAL CABLE
- ES } EXISTING POWER SUPPLY
- ET } EXISTING PHONE DROP
- EL } EXISTING LOOP WIRE
- EP } EXISTING NON-INVASIVE PROBES



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

US 1 & US 22 (ROCK SPRINGS RD)

CONOWINGO, MD

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE 12-15-11 CONTRACT NO. XX6625185

DESIGNED BY MAW COUNTY CECIL  
DRAWN BY MAW LOGMILE 07000101.46  
CHECKED BY MF TMS NO. L203  
F.A.P. NO. SEE TITLE SHEET TOD NO.

TS NO. 300D-GI DRAWING SG-02 OF 02 SHEET NO. 2 OF 2

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